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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/730,196 | 12/05/2003 | Yoshihiro Hashimoto | 02008.133001 | 2127 |

7590 10/17/2005

Mr. Jonathan P. Osha
Rosenthal & Osha L.L.P.
One Houston Center
1221 McKinney Street, Suite 2800
Houston, TX 77010

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| EXAMINER |
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DEB, ANJAN K

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| ART UNIT | PAPER NUMBER |
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2858

DATE MAILED: 10/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental
Notice of Allowability**

Application No.

10/730,196

Examiner

Anjan K. Deb

Applicant(s)

HASHIMOTO, YOSHIHIRO

Art Unit

2858

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 08/22/2005.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

1. This office action is in response to amendment filed 08/22/2005.
2. The drawings filed on 12/05/2003 are approved by the examiner.

Allowable Subject Matter

3. Claims 1-18 are allowed.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance:

The primary reason for allowance of the claims 1,2,5-7, 11-16 is the inclusion of current control unit operable to control the current drawn by a current draw unit from an electrical path to decrease the difference between a predetermined DC voltage and a voltage received by a load, wherein the current control unit controls the drawn current when the voltage supplied to the load varies to be higher or lower than a predetermined voltage value.

The primary reason for allowance of the claims 3,4, is the inclusion of first current change unit provided in said electrical path between said current draw unit and said load to be in parallel to said load, operable to supply a current to said electrical path in a case where a current received by said load increased and draw a current from said electrical path in a case where the current received by said load decreased.

The primary reason for allowance of the claims 8-10 is the inclusion of second current change unit, provided in said electrical path between said power supply and said current draw

unit to be in parallel to said current draw unit, operable to supply a current to said electrical path in a case where the current drawn by said current draw unit increased and draw a current from said electrical path in a case where the current drawn by said current draw unit decreased.

The primary reason for allowance of the claims 17,18 is the inclusion of wherein said control unit controls the drawn current when power supply is on or off.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kitagawa (US 20020171399) discloses power supply apparatus (Fig. 1) for supplying a voltage through an electrical path to a load 10 and current draw unit 14 operable to draw a current from the electrical path and a current control unit 24 operable to control 21 the current drawn by said current draw unit 14 from said electrical path. While Kitagawa discloses control unit controls the drawn current when the voltage supplied to the load 10 varies to be lower than a predetermined voltage value it does not expressly disclose that the current control unit controls the drawn current when the voltage supplied to the load 10 varies to be higher than a predetermined voltage value so as to decrease the difference between a predetermined DC voltage and the voltage supplied to load.

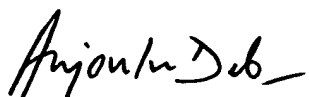
Johnson (US 6,717,389 B1) discloses power supply apparatus (Fig. 4) for supplying 410 a voltage through an electrical path to a load 440 and current draw unit 470 operable to draw a current (I_T) from the electrical path and a current control unit 460 operable to control the current drawn by the current draw unit 470 from the electrical path. While Johnson discloses control unit 460 controls the drawn current so as to maintain a substantially constant voltage across the load

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it does not expressly disclose that the control unit controls the drawn current when the voltage supplied to the load varies to be higher or lower than a predetermined voltage value.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is 571-272-2228. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lefkowitz Edwards can be reached at 571-272-2180.



Anjan K. Deb

Primary Patent Examiner

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10/11/05

Tel: 571-272-2228

E-mail : anjan.deb@uspto.gov